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BUREAU OF ANIMAL INDUSTRY

OCTOBER, 1931

[This publication is issued monthly for the dissemination of information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry. Free distribution is limited to persons in the service of the bureau, establishments at which the Federal meat inspection is conducted, public officers whose duties make it desirable for them to have such information, and journals especially concerned. Others desiring copies may obtain them from the Superintendent of Documents, Government Printing Office, Washington, D. C., at 5 cents each, or 25 cents a year. A supply will be sent to each official in charge of a station or branch of the bureau service, who should promptly distribute copies to members of his force. A file should be kept at each station for reference.]

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CHANGES IN DIRECTORY

Meat Inspection Granted

- †*54. Insel & Insel (Inc.), 225-255 Pacific Street, Newark, N. J.
- †167. Belmont Food Products Co., 325-327 York Street, Newport, Ky.
- †490. New Bedford Provision Co., 31 Hathaway Street, New Bedford, Mass.
- 522-A. Carmel Kosher Provision Co. (Inc.), 1043 West Thirty-eighth Street,
mail 3830 South Morgan Street, Chicago, Ill.
- †792. Morris Cherkasky, 307 Callowhill Street, Philadelphia, Pa.

Meat Inspection Withdrawn

- 12-D. Kingan Provision Co., 350-352 North Holliday Street, Baltimore, Md.
14. Hellman Products Co. (Inc.), 3-5 Thorpe Street, Binghamton, N. Y.
244-A. Waldeck Packing Co., 2914 La Salle Street, St. Louis, Mo.
904. Alfred Berger Co., 217 Broome Street, Newark, N. J.
919. Vermont Packing Co., Bellows Falls, Vt.
974. Houlton Dressed Meat Co., Pleasant Street, Houlton, Me.
From Subsidiary: Wilson-Martin Co., under establishments 20, Wilson & Co., New York, N. Y.; 20-A, Wilson & Co., Kansas City, Kans.; 20-Q, Wilson & Co., Oklahoma City, Okla.; and 20-BB Wilson & Co., Wilmington, Del. Henneberry & Co., under establishment 246, The Keefe-Le Sturgeon Co., Arkansas City, Kans.

Horse-Meat Inspection Withdrawn

- E-74. Continental Packing Co., San Jose, Calif.

Meat Inspection Extended

Swift & Co., establishments 3, Chicago, Ill.; 3-A, Kansas City, Kans.; 3-B, Omaha, Nebr.; 3-D, South St. Joseph, Mo.; 3-E, South St. Paul, Minn.; 3-N, St. Louis, Mo.; 3-L, Sioux City, Iowa; and 104, Des Moines, Iowa, to include St. Louis Independent Packing Co.
Swift & Co., establishment 3-C, National Stock Yards, Ill., to include St. Louis Independent Packing Co., and Missouri Butterine Co. of St. Louis.

Station Changed to Substation

Albia, Iowa, horse-meat inspection, substation of Ottumwa, Iowa.

Change in Address of Official in Charge

Dr. F. T. Suit, 350 Federal Building, Memphis, Tenn., instead of 1212 Sterick Building.

Change of Official in Charge

Dr. A. A. Kritt succeeds Mr. W. F. Quigley as inspector in charge at Manchester, N. H.

Dr. Virgil W. Woolen succeeds Dr. William Fotheringham (retired) as inspector in charge at Eau Claire, Wis.

Change of Official Station

Dr. Robert Jay, in charge of liver-fluke control, Corvallis, Oreg., instead of Sacramento, Calif.

Stations Discontinued

Bellows Falls, Vt., meat inspection. (Remove Doctor Kritt.)
Houlton, Me., meat inspection. (Doctor Kaufman will continue in charge of Canadian import and export inspection at Houlton.)
Miles City, Mont., internal parasites of horses and poultry. (Remove Mr. Wehr.)
Ottumwa, Iowa, virus-serum control. (Remove Doctor Lollar.)

Substation Discontinued

San Jose, Calif., horse-meat inspection, under San Francisco, Calif.

NOTICE REGARDING MEAT INSPECTION

CERTIFICATION OF HIDES FOR POLAND

The bureau has been officially informed that the Polish Government requires a sanitary certificate for hides offered for importation into that country. Accordingly inspectors will issue M. I. Form 167 in duplicate for each consignment of hides destined to Poland after satisfying themselves that the hides are from animals which have been United States inspected and passed.

ANIMALS SLAUGHTERED UNDER FEDERAL MEAT INSPECTION, SEPTEMBER, 1931

Station	Cattle	Calves	Sheep and lambs	Goats	Swine
Baltimore.....	7,673	1,358	4,131	-----	53,535
Buffalo.....	8,192	2,206	7,805	-----	67,433
Chicago.....	129,491	38,297	307,047	-----	418,425
Cincinnati.....	13,980	6,571	14,287	-----	66,136
Cleveland.....	3,588	4,247	12,469	-----	40,937
Denver.....	7,781	1,852	37,569	-----	20,255
Detroit.....	6,601	5,772	13,112	-----	63,545
Fort Worth.....	23,934	28,642	25,535	30	11,014
Indianapolis.....	12,666	3,437	8,401	-----	62,016
Kansas City.....	60,129	20,410	134,127	-----	145,414
Los Angeles.....	9,582	3,809	36,998	45	22,778
Milwaukee.....	15,578	35,633	9,419	-----	93,298
National Stock Yards.....	28,186	14,368	33,583	1	81,608
New York.....	30,627	55,148	278,043	-----	59,203
Omaha.....	68,404	5,689	185,916	1	142,675
Philadelphia.....	5,935	7,872	23,819	-----	68,517
St. Louis.....	12,344	9,228	8,386	-----	106,600
Sioux City.....	29,162	4,442	68,930	-----	78,458
South St. Joseph.....	23,459	4,968	88,935	-----	58,519
South St. Paul.....	42,485	43,981	96,450	-----	177,159
Wichita.....	6,952	1,913	3,489	-----	27,039
All other stations.....	140,136	92,964	268,535	333	1,090,001
Total:					
September, 1931.....	686,885	392,867	1,666,986	410	2,954,565
September, 1930.....	760,372	374,388	1,591,292	2,069	2,772,666
9 months ended—					
September, 1931.....	6,026,221	3,566,016	13,180,866	4,068	31,395,758
September, 1930.....	6,037,797	3,435,706	12,237,493	7,386	32,103,684
New York, Brooklyn, Jersey City and Newark.....	38,040	61,947	336,248	-----	186,540

¹ The slaughter figures in this group of cities are included in the figures above for "New York" and "All other stations" and are combined here to show total in the Greater New York district.

Horses slaughtered:

September, 1931.....	11,964
September, 1930.....	12,617
9 months ended—	
September, 1931.....	79,712
September, 1930.....	88,823

Inspections of lard at all establishments, 110,905,697 inspection pounds; compound and other substitutes, 49,502,821 inspection pounds; sausage, 61,284,298 inspection pounds; oleomargarine, 8,590,838 inspection pounds.

Corresponding inspections for September, 1930: Lard, 101,275,215 inspection pounds; compound and other substitutes, 43,043,333 inspection pounds; sausage, 62,459,852 inspection pounds; oleomargarine, 12,891,182 inspection pounds.

(These totals of inspection pounds do not represent actual production, as the same product may have been inspected and recorded more than once in the process of manufacture.)

CAUSES OF CONDEMNATIONS OF CARCASSES, AUGUST, 1931

Cause	Cattle	Calves	Sheep and lambs	Swine
Emaciation.....	650	46	322	25
Hog cholera.....				2,092
Inflammatory diseases.....	890	137	965	1,685
Immaturity.....		74		
Tuberculosis.....	1,780	43	2	2,752
Other causes.....	1,129	144	725	2,747
Total.....	4,449	444	2,014	9,301

IMPORTS OF FOOD ANIMALS AND OF MEATS AND MEAT FOOD PRODUCTS, SEPTEMBER, 1931

The statements following show the imports of food animals and of meats and meat food products inspected by the Bureau of Animal Industry during September, 1931, with figures for other periods for comparison.

Imports of food animals

Country of export	Cattle	Swine	Sheep	Goats
Mexico.....	2,233			
Canada.....	1 2,776	352	340	
Virgin Islands (to Porto Rico).....	121			
Total:				
September, 1931.....	5,130	352	340	
September, 1930.....	6,027	28	528	5
9 months ended—				
September, 1931.....	76,786	1,597	5,457	32
September, 1930.....	204,580	290	7,850	67

¹ Because of a delayed report 6 cattle, imported during August, are included in this figure.

Imported meats and meat food products

Country of export	Fresh and refrigerated		Cured and canned	Other meat products	Total weight
	Beef	Other			
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>
Argentina.....			1,185,623		1,185,623
Australia.....				3,131	3,131
Canada.....	20,960	74,719	107,852	292,844	496,375
New Zealand.....	952	34,514		24,514	59,980
Paraguay.....			128,990		128,990
Uruguay.....			641,094		641,094
Other countries.....			63,431	60,599	124,030
Total:					
September, 1931.....	21,912	109,233	2,126,990	381,088	2,639,223
September, 1930.....	285,810	113,737	1,063,827	642,906	2,106,280
9 months ended—					
September, 1931.....	1,271,211	911,092	15,169,029	4,354,959	21,706,291
September, 1930.....	4,959,164	2,759,174	48,198,134	4,095,631	60,012,103

Condemned in September, 1931: Beef, 40 pounds; pork, 120 pounds; total, 160 pounds.
Refused entry: Pork, 1,972 pounds.

SUMMARY OF TUBERCULOSIS-ERADICATION WORK IN COOPERATION WITH STATES, SEPTEMBER, 1931

State or Territory	Tuberculin tests during month			Total to date			Inspector in charge	State official
	Herds or lots	Cattle tested	Cattle reacted	Once-tested-free herds	Accredited herds	Herds under supervision		
Ala.....	3, 133	9, 906	11	42, 740	317	45, 327	R. E. Jackson.....	C. A. Cary, Auburn.
Ariz.....	56	2, 175	42	8, 769	46	8, 873	F. L. Schneider.....	E. L. Stam, Phoenix.
Ark.....	609	5, 186	0	19, 393	10	19, 403	W. A. McDonald.....	J. H. Bux, Little Rock.
Calif.....	347	4, 257	54	8, 352	133	8, 662	W. E. Howe.....	J. J. King, Sacramento.
Colo.....	6	233	0	45	72	143	R. Snyder.....	C. G. Lamb, Denver.
Conn.....	664	7, 828	271	3, 234	3, 961	8, 074	R. L. Smith.....	Charles Johnson, Hartford.
Del.....	234	3, 108	33	4, 876	1, 687	7, 048	E. B. Simonds.....	Ralph C. Wilson, Dover.
D. C.....	0	0	0	43	2	46	A. E. Wight.....	
Fla.....	264	8, 757	37	11, 397	93	12, 242	T. W. Cole.....	J. V. Knapp, Tallahassee.
Ga.....	2, 147	9, 011	41	83, 016	30	83, 076	A. L. Hirtleman.....	J. M. Sutton, Atlanta.
Idaho.....	573	5, 614	20	44, 396	44	47, 849	W. A. Sullivan.....	Thomas W. White, Boise.
Ill.....	10, 695	110, 574	1, 272	73, 979	5, 634	225, 892	J. J. Lintner.....	D. W. Robison, Springfield.
Ind.....	2, 080	24, 113	167	182, 542	3, 745	188, 298	J. E. Gibson.....	Frank H. Brown, Indianapolis.
Iowa.....	4, 649	81, 222	1, 560	100, 000	1, 804	200, 000	J. A. Barger.....	M. G. Thornburg, Des Moines.
Kans.....	234	4, 425	13	113, 004	533	113, 719	N. L. Townsend.....	J. H. Mercer, Topeka.
Ky.....	1, 316	5, 614	11	97, 042	43	99, 423	W. F. Tiles.....	D. E. Westmorland, Frankfort.
La.....	41	948	33	6, 181	13	6, 486	G. T. Cole.....	E. P. Flower, Baton Rouge.
Me.....	667	5, 481	26	42, 994	880	43, 917	G. R. Caldwell.....	H. M. Tucker, Augusta.
Md.....	2, 065	19, 639	193	19, 473	11, 439	39, 110	E. B. Simonds.....	James B. George, Baltimore.
Mass.....	1, 107	12, 294	1, 033	4, 849	3, 627	9, 610	E. A. Crossman.....	E. F. Richardson, Boston.
Mich.....	9, 317	76, 455	96	184, 331	76	185, 070	T. S. Rich.....	C. H. Clark, Lansing.
Minn.....	6, 475	118, 334	543	118, 639	6, 155	126, 344	W. J. Fretz.....	C. E. Cotton, St. Paul.
Miss.....	1, 217	11, 381	21	19, 511	17	19, 549	H. Robbins.....	Charles E. O'Neal, Jackson.
Mo.....	1, 102	9, 110	15	105, 267	243	109, 352	Ralph Graham.....	H. A. Wilson, Jefferson City.
Mont.....	464	7, 004	14	38, 342	80	41, 774	J. W. Murdoch.....	W. J. Butler, Helena.
Nebr.....	69	2, 135	11	87, 494	98	87, 766	A. H. Francis.....	H. L. Feistner, Lincoln.
Nev.....	62	2, 868	0	3, 807	9	4, 116	L. C. Butterfield.....	Edward Records, Reno.
N. H.....	456	4, 835	566	3, 033	6, 269	9, 860	E. A. Crossman.....	A. L. Felker, Concord.
N. J.....	782	9, 632	2, 313	5, 912	4, 780	16, 650	Ellis E. McCoy.....	J. H. McNeil, Trenton.
N. Mex.....	211	1, 441	4	3, 989	26	4, 757	F. L. Schneider.....	Mat Keenan, Albuquerque.
N. Y.....	8, 176	88, 642	3, 208	39, 007	72, 020	116, 143	H. B. Leonard.....	E. T. Faulder, Albany.
N. C.....	308	2, 169	2	256, 556	358	256, 924	W. C. Dendinger.....	William Moore, Raleigh.
N. Dak.....	95	2, 410	8	66, 954	5, 455	79, 335	H. H. Cohenour.....	W. F. Crewe, Bismarck.
Ohio.....	4, 787	39, 194	74	237, 329	790	243, 109	A. J. De Fosset.....	G. H. Pierce, Columbus.
Okla.....	950	9, 271	9	14, 673	236	14, 924	L. J. Allen.....	C. C. Hisel, Oklahoma City.
Oreg.....	1, 442	11, 278	34	53, 696	785	54, 501	S. B. Foster.....	W. H. Lytle, Salem.
Pa.....	7, 742	72, 889	1, 293	123, 075	6, 971	141, 208	J. B. Reidy.....	T. E. Munce, Harrisburg.
R. I.....	76	1, 735	199	278	170	713	E. A. Crossman.....	T. E. Robinson, Providence.
S. C.....	979	3, 586	5	85, 873	127	86, 005	W. K. Lewis.....	W. K. Lewis, Columbia.
S. Dak.....	152	4, 544	39	9, 489	1, 122	10, 816	J. O. Wilson.....	R. S. Robinson, Pierre.
Tenn.....	715	4, 931	9	87, 705	100	87, 841	H. L. Fry.....	J. M. Jones, Nashville.
Tex.....	956	9, 473	65	18, 841	404	19, 772	H. L. Darby.....	N. F. Williams, Fort Worth.
Utah.....	979	6, 298	15	7, 161	110	8, 117	F. E. Murray.....	W. H. Hendricks, Salt Lake City.
Vt.....	757	14, 958	916	4, 014	9, 341	15, 251	L. H. Adams.....	Edward H. Jones, Montpelier.
Va.....	2, 249	11, 060	41	91, 334	1, 020	92, 632	R. E. Brookbank.....	H. C. Givens, Richmond.
Wash.....	1, 804	18, 135	49	49, 867	85	63, 433	J. C. Exline.....	Robert Prior, Olympia.
W. Va.....	1, 354	5, 879	8	81, 092	626	82, 896	H. M. Newton.....	H. M. Gore, Charleston.
Wis.....	13, 829	203, 933	285	176, 737	10, 720	188, 607	J. S. Healy.....	Walter Wisnicky, Madison.
Wyo.....	22	231	0	12, 164	6	13, 562	John T. Dallas.....	H. D. Port, Cheyenne.
Hawaii.....	125	2, 126	170	-----	-----	255	L. E. Case.....	L. E. Case, Honolulu.
Total.....	98, 519	1, 076, 492	14, 829	2, 852, 495	162, 312	3, 348, 480		

SUMMARY OF HOG-CHOLERA-CONTROL WORK, SEPTEMBER, 1931

State	Bureau veterinarians engaged in work ¹	Meetings addressed	Premises investigated	Demonstrations		Autopsies performed	Farms quarantined or carded	Farms cleaned and disinfected	Outbreaks reported to bureau veterinarians
				Number	Hogs treated				
Alabama.....	1		96						
California.....	.5		19	1	18	11	1	2	4
Colorado.....	.2		7			5			1
Florida.....	1		52	23	545	1		3	21
Georgia.....	.3		10						1
Idaho.....	.3	1	80			3			
Illinois.....	3	5	264	3	85	89	3	44	162
Indiana.....	2	1	66			8			15
Iowa.....	3		78	2	93	44			135
Kansas.....	.6		34			1			9
Kentucky.....	2	2	185			19			18
Louisiana.....	1		19	2	25		7		7
Maryland.....	2		297	1	5	11			86
Michigan.....	2		127	2	76	19			118
Mississippi.....	1.03	2	84	19	153			1	
Missouri.....	1	2	64	1	43	5			6
Nebraska.....	1.2		49	6	302	34			17
North Carolina.....	1		40	3	52	2			2
Ohio.....	2	1	71	1	22	18			324
Oklahoma.....	2		156			3	3		13
South Carolina.....	1		54	53	504	1			7
South Dakota.....	1		19	1	50	19			12
Tennessee.....	1		51						8
Texas.....	1		34			7	1		12
Virginia.....	1	1	183	96	407	11		1	28
Washington.....	.5		17			6	2		4
West Virginia.....	.2		23	3	35		4		10
Wisconsin.....	1		28	6	584	9	6		10
Total.....	33.83	15	2,207	223	2,999	326	27	51	1,030

¹ Fractions denote men devoting part time to the work.

NOTE.—No work reported from States not listed.

ANTI-HOG-CHOLERA SERUM AND HOG-CHOLERA VIRUS PRODUCED UNDER LICENSES, SEPTEMBER, 1931

Period	Total serum	Clear serum completed	Hyperimmune blood cleared	Simultaneous virus	Hyperimmunizing virus
September, 1931.....	C. c. 77,629,233	C. c. 64,959,238	C. c. 83,527,395	C. c. 5,735,644	C. c. 15,769,496
September, 1930.....	71,281,180	60,944,393	78,088,644	4,865,362	16,860,117
9 months ended—					
September, 1931.....	692,085,971	599,240,800	732,545,086	55,571,757	142,592,382
September, 1930.....	625,119,693	498,794,781	626,925,449	51,600,384	138,364,931

LICENSES ISSUED FOR BIOLOGICAL PRODUCTS, SEPTEMBER, 1931

License No. 158 was issued September 17, 1931, to the Globe Laboratories, near Fostepco Heights, Fort Worth, Tex. (mailing address: P. O. box 4145, Stockyards Station, Fort Worth), for fowl-pox vaccine.

License No. 199 was issued September 2, 1931, to the Poultry Service Laboratory, 319 B Street, Petaluma, Calif., for chicken-pox vaccine.

PROCEEDINGS UNDER THE PACKERS AND STOCKYARDS ACT, OCTOBER, 1931

Docket No. 360.—In re F. F. Silver, Meridian Union Stockyards, Meridian, Miss. On August 19, 1931, the Acting Secretary of Agriculture issued an inquiry alleging that respondent was insolvent in that he was unable to pay his debts as they became due in the usual course of business and that he had violated Titles III and IV of the packers and stockyards act in connection with the han-

dling of livestock in commerce. On September 15, 1931, respondent acknowledged receipt of the order of inquiry, admitted the truth of the matters and things therein alleged, and waived a hearing thereon. On October 3, 1931, the Acting Secretary of Agriculture suspended respondent from registration as a market agency for six months, and ordered him to cease and desist from the unfair, unjust, and unreasonable practice and device of failing to account or remit to the shippers, after deducting all legitimate expenses, the amount for which their livestock was sold; and to keep and maintain adequate accounts, records and memoranda pertaining to his business.

Stockyards Posted

On October 7, 1931, the Joplin Stockyards at Joplin, Mo., was posted as coming within the jurisdiction of the packers and stockyards act.

Stockyards Withdrawn from Jurisdiction

On October 17, 1931, the Stockton Feed Yards at Stockton, Calif., was withdrawn from the jurisdiction of the packers and stockyards act, as it is no longer conducted as a public market.

RESULTS OF PROSECUTIONS FOR VIOLATIONS OF LAWS

Penalties and fines have been imposed in prosecutions for violations of regulatory laws, as reported to the bureau, as follows:

Twenty-eight Hour Law

Atlantic Coast Line Railroad Co. (two cases), \$200 penalties.

Michigan Central Railroad Co. (three cases), \$300 penalties.

New York Central Railroad Co., \$100 penalty.

Meat Inspection Law

George H. Lewis, Northfield Center, N. J., \$100 fine, and Leon A. Berrier, Meadville, Pa., \$40 fine, for offering unsound meat for interstate shipment.

DR. W. P. ELLENBERGER DIES

Dr. William P. Ellenberger, assistant chief of the Field Inspection Division of the bureau died October 26 at the Emergency Hospital, Washington, D. C., as a result of an accidental fall. Doctor Ellenberger served the bureau in various supervisory and executive capacities during the last 33 years.

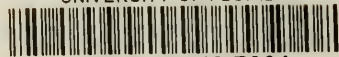
He was born at Easton, Wayne County, Ohio, July 4, 1871, and was educated in the elementary and high schools at Wadsworth, Ohio. He attended the Ontario and McKillip Veterinary Colleges and the Columbian University of Veterinary Medicine in Washington, D. C., from which institution he was graduated in 1897, receiving the degree of doctor of veterinary science. Prior to entering the bureau's service, in 1898, he practiced veterinary medicine. His first Federal assignment was at Cincinnati, Ohio, as assistant inspector in meat-inspection work. He advanced to inspector in charge of tick-eradication work in Tennessee and subsequently rose to the position of assistant chief of the Tick Eradication Division, serving from 1917-1929, when he became assistant chief of the Field Inspection Division. He was joint author of a farmers' bulletin dealing with cattle-fever ticks and methods of eradication, which has been in great demand, and of a publication giving directions for constructing vats and dipping cattle to destroy ticks.

NEW PUBLICATIONS OF THE BUREAU

[The bureau keeps no mailing list for sending publications to individual employees but sends copies to officers in charge of stations and offices. These publications should be regarded as notification copies. So far as possible additional copies will be furnished on request.]

Farmers' Bulletin No. 834 (revised). Hog Cholera. By M. Dorset, Biochemic Division, and U. G. Houck, Division of Hog-Cholera Control. Pp. 29, figs. 11.

Yearbook Separate No. 1158. Abortion-Disease Tests Give Information on the Presence of this Malady. By W. E. Cotton and J. M. Buck, Experiment Station. Pp. 3.



Yearbook Separate No. 1160. Cattle Ticks Can Be Eradicated by System of Vacating Pastures. By W. M. MacKellar, Tick Eradication Division. Pp. 2.

Yearbook Separate No. 1162. Federal Meat Inspection Protects Consumers and Locates Animal Diseases. By W. C. Herrold, Meat Inspection Division. Pp. 4, figs. 2.

Yearbook Separate No. 1163. Hog-Cholera Serum Is Greatly Improved by Pasteurizing Process. By D. I. Skidmore, Division of Virus-Serum Control. Pp. 3, figs. 2.

Yearbook Separate No. 1165. Livestock Are Healthier Than Formerly, According to Meat-Inspection Data. By J. R. Mohler, Chief of Bureau of Animal Industry. Pp. 3, figs. 3.

Yearbook Separate No. 1167. Milk Goats Show Effect of Good Feed by Prompt Increase in Production. By V. L. Simmons, Animal Husbandry Division. Pp. 2, fig. 1.

Yearbook Separate No. 1168. Poultry Profits are Largely Dependent on High Egg Production. By J. P. Quinn, Animal Husbandry Division. Pp. 3, figs. 3.

Yearbook Separate No. 1169. Scales May Be Balanced and Be Very Sensitive and Yet Be Inaccurate. By C. A. Briggs, Packers and Stockyards Division. Pp. 3, figs. 2.

Yearbook Separate No. 1171. Swine If Inbred Give Birth to Small Litters of Pigs Lacking Vigor. By H. C. McPhee, Animal Husbandry Division. Pp. 2.

Yearbook Separate No. 1173. Swine-Sanitation Plan Results in More and Better Pigs per Sow. By J. E. Gibson, Division of Hog-Cholera Control. Pp. 3, figs. 2.

Yearbook Separate No. 1174. Tuberculosis of Cattle Practically Eradicated from State of Michigan. By T. S. Rich, Tuberculosis Eradication Division. Pp. 3, fig. 1.

Amendment 3 to B. A. I. Order 331. Declaring names of counties placed in modified accredited area for tuberculosis. Effective, October 1, 1931. P. 1, mimeographed.

Journal of Agricultural Research Separate, Vol. 43, No. 4. Key No. A-146. N-Butylidene Chloride, a New Drug for the Treatment of Equine Strongylidosis. By Willard H. Wright, H. B. Raffensperger, John Bozicevich, Paul C. Underwood, Zoological Division, and Jacob M. Schaffer, Biochemic Division.

ORGANIZATION OF THE BUREAU OF ANIMAL INDUSTRY

Chief: JOHN R. MOHLER.

Associate Chief: U. G. HOUCK.

Assistant Chief: A. W. MILLER.

Administrative Officer: CHARLES C. CARROLL.

Chief Clerk: J. R. COHRAN.

Assistant to Chief: D. S. BURCH.

Animal Husbandry Division: E. W. SHEETS, chief.

Biochemic Division: M. DORSET, chief.

Division of Hog-Cholera Control: U. G. HOUCK, chief.

Division of Virus-Serum Control: D. I. SKIDMORE, chief.

Field Inspection Division: G. W. POPE, chief.

Meat Inspection Division: R. P. STEDDOM, chief.

Packers and Stockyards Division: A. W. MILLER, chief.

Pathological Division: HARRY W. SCHOENING, acting chief.

Tick Eradication Division: R. A. RAMSAY, chief.

Tuberculosis Eradication Division: A. E. WIGHT, chief.

Zoological Division: MAURICE C. HALL, chief.

Experiment Station: W. E. COTTON, superintendent.

Office of Accounts: GEORGE F. TUCKER, in charge.

Office of Personnel: GEORGE R. BROWN, in charge.